

Fig. 1

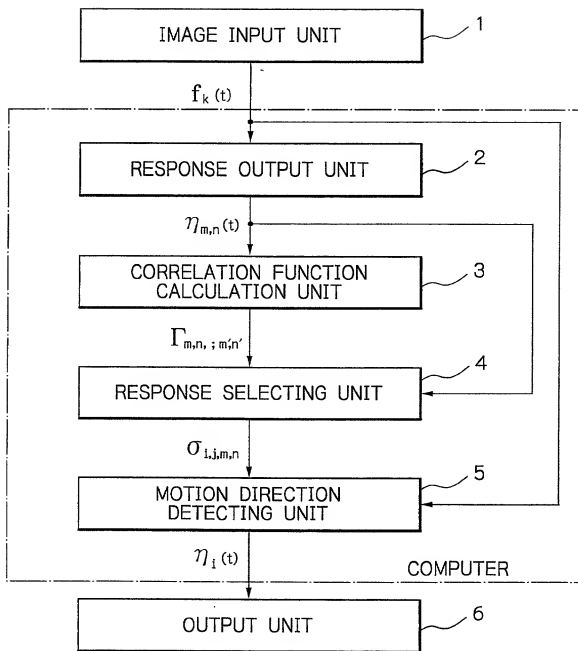


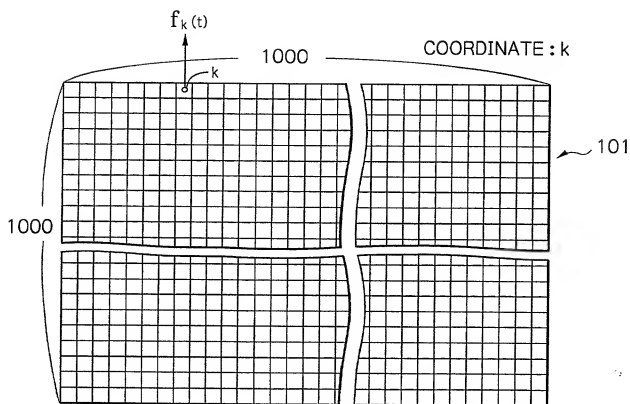
Fig. 2

Fig. 3

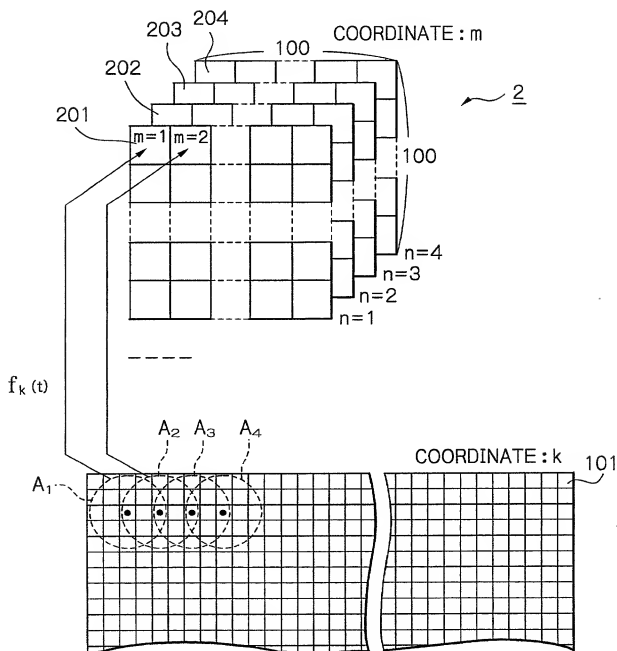
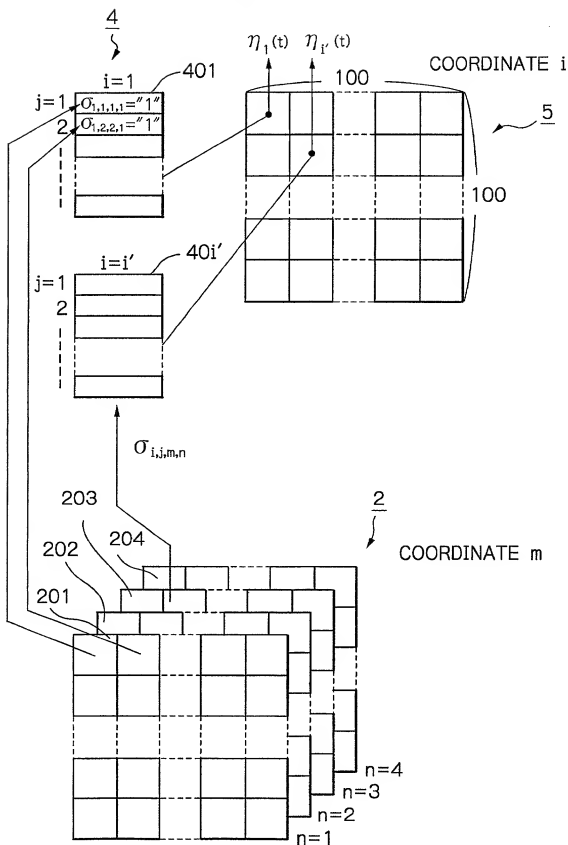


Figure 1 illustrates the steps of the proposed algorithm. The diagrams show a 10x10 grid with a start cell 'S' at (1,1) and a goal cell 'G' at (10,10). The steps are as follows:

- (a) Initial state: Start cell 'S' at (1,1) and goal cell 'G' at (10,10).
- (b) Step 1: The start cell 'S' is expanded to its four neighbors: (1,2), (2,1), (1,0), and (0,1).
- (c) Step 2: The neighbors are further expanded. For example, (1,2) expands to (1,3), (2,2), (1,1), and (0,2).
- (d) Step 3: The process continues, expanding the frontier of cells.
- (e) Step 4: The process continues, expanding the frontier of cells.
- (f) Step 5: The process continues, expanding the frontier of cells.
- (g) Step 6: The process continues, expanding the frontier of cells.
- (h) Step 7: The process continues, expanding the frontier of cells.
- (i) Step 8: The process continues, expanding the frontier of cells.
- (j) Step 9: The process continues, expanding the frontier of cells.
- (k) Step 10: The process continues, expanding the frontier of cells.
- (l) Final state: The goal cell 'G' is reached.



$\frac{5}{8}$

Fig. 5A

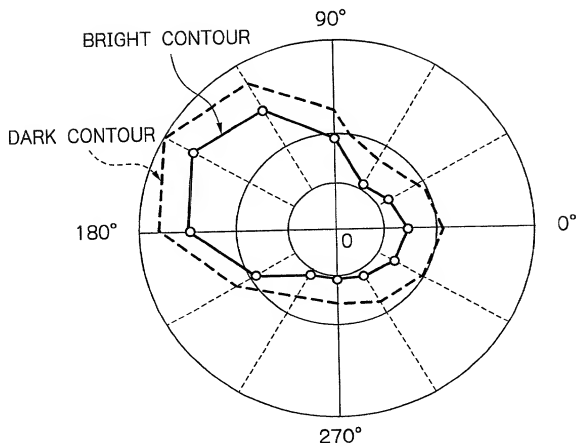
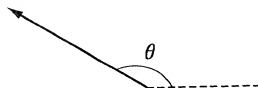
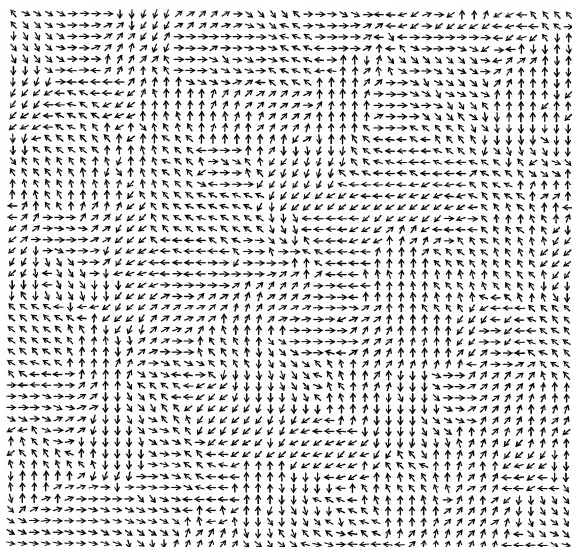


Fig. 5B



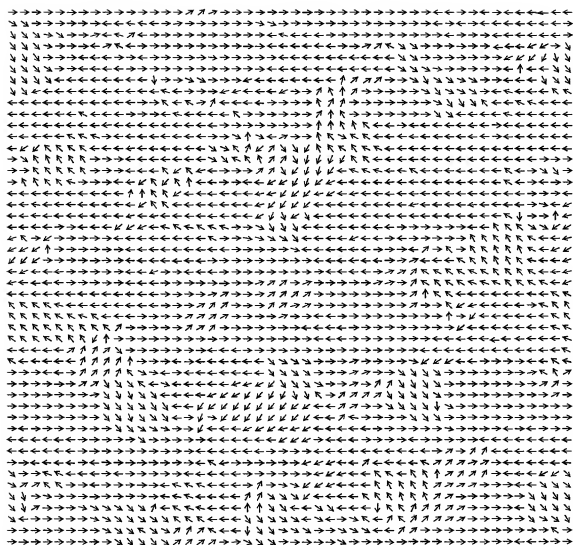
6/
8

Fig. 6



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Fig. 7



*Fig. 8*401,..., 40i', ...

i	j	m	n
1	1	1	1
1	2	2	1
⋮			